

SEQUENCE LISTING

<110> Cohen, David I.
 <120> Tat-based Immunomodulatory Compositions and Methods for Their
 Discovery and Use
 <130> 51311-00009
 <150> 60/553,733
 <151> 2004-03-16
 <160> 11
 <170> PatentIn version 3.2
 <210> 1
 <211> 101
 <212> PRT
 <213> Human immunodeficiency virus type 1
 <400> 1

Met Glu Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser
 1 5 10 15
 Gln Pro Lys Thr Ala Cys Thr Thr Cys Tyr Cys Lys Lys Cys Cys Phe
 20 25 30
 His Cys Gln Val Cys Phe Thr Lys Lys Ala Leu Gly Ile Ser Tyr Gly
 35 40 45
 Arg Lys Lys Arg Arg Gln Arg Arg Ala Pro Glu Asp Ser Gln Thr
 50 55 60
 His Gln Val Ser Pro Pro Lys Gln Pro Ala Pro Gln Phe Arg Gly Asp
 65 70 75 80
 Pro Thr Gly Pro Lys Glu Ser Lys Lys Lys Val Glu Arg Glu Thr Glu
 85 90 95
 Thr His Pro Val Asp
 100

<210> 2
 <211> 303
 <212> DNA
 <213> Human immunodeficiency virus type 1

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 gcctgcacca catgttactg caagaagtgc tgcttcact gccaggtgtg cttcaccaag 120
 aaggccttgg gcatcagcta cggccgcaag aagcgccggc agcgccgccg ggcccctgag 180
 gacagccaga cccaccaggt gagccctccc aagcagcccg ctccacagtt ccgcggcgac 240
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 gac 303

<210> 3
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 <212> PRT
 <213> Human immunodeficiency virus type 1

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Pro Val Asp Pro Arg Leu Glu Pro Trp Lys His Pro Gly Ser Gln Pro
 1 5 10 15

Lys

<210> 4
 <211> 21
 <212> PRT
 <213> Human immunodeficiency virus type 1

<400> 4

Pro Cys Asp Trp Pro Leu Thr Pro Asp Pro Trp Val Tyr Ser Gly Ser
 1 5 10 15

Gln Pro Lys Val Pro
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<210> 5
 <211> 27
 <212> PRT
 <213> Simian immunodeficiency virus

<400> 5

Pro Leu Arg Glu Gln Glu Asn Ser Leu Glu Ser Ser Asn Glu Arg Ser
 1 5 10 15

Ser Cys Ile Leu Glu Ala Asp Ala Thr Thr Pro
 20 25

<210> 6
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 <212> PRT
 <213> Human immunodeficiency virus type 1

<400> 6

Ser Asn Glu Arg Ser Ser Cys Glu Leu Glu Val
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<210> 7
 <211> 16
 <212> PRT
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<400> 7

Cys Thr Thr Cys Tyr Cys Lys Lys Cys Cys Phe His Cys Gln Val Cys
 1 5 10 15

<210> 8
 <211> 50
 <212> DNA
 <213> Human immunodeficiency virus type 1

<400> 8
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<210> 9
 <211> 63
 <212> DNA
 <213> Mus musculus

<400> 9
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 ccc 63

<210> 10
 <211> 33
 <212> DNA
 <213> Simian immunodeficiency virus

<400> 10
 agcaacgagc ggagttcctg cgagtttagag gtg 33

<210> 11
 <211> 98
 <212> PRT
 <213> Artificial

<220>
 <223> Modified immunostimulatory Tat

<400> 11

Met Glu Pro Ser Asn Glu Arg Ser Ser Cys Glu Leu Glu Val Pro Lys
 1 5 10 15

Thr Ala Cys Thr Thr Cys Tyr Cys Lys Lys Cys Cys Phe His Cys Gln
 20 25 30

Val Cys Phe Thr Lys Lys Ala Leu Gly Ile Ser Tyr Gly Arg Lys Lys
 35 40 45

Arg Arg Gln Arg Arg Arg Ala Pro Glu Asp Ser Gln Thr His Gln Val
 50 55 60

Ser Pro Pro Lys Gln Pro Ala Pro Gln Phe Arg Gly Asp Pro Thr Gly
 65 70 75 80

Pro Lys Glu Ser Lys Lys Lys Val Glu Arg Glu Thr Glu Thr His Pro
 85 90 95

Val Asp